a memory;

a processor on a client device communicatively coupled to said memory, wherein said processor is configured to:

receive a IPv6 packet over a communication network;

determine if said IPv6 packet comprises an extension header with geo-location information; and

responsive to a determination that said packet comprises an extension header with geo-location information, perform an action based on said geo-location information, wherein said action is selected from the group consisting of: authenticating said packet, prioritizing said packet relative to other packets, routing said packet, and monitoring of said packet.

18. The apparatus of claim **17**, wherein said processor is further configured to:

receive a second IPv6 packet over said communication network; and

responsive to a determination that said second packet does not comprise an extension header with geo-location information, said processor is further configured to treat said second packet with regular priority.

19. The apparatus of claim **17**, wherein said authenticating comprises:

blocking said packet based on its geographic location of origin.

20. The apparatus of claim **17**, wherein said prioritizing comprises:

prioritizing delivery of said packet based on its location of origin relative to other packets originating from different locations.

21. The apparatus of claim **17**, wherein said routing comprises:

routing said packet to a destination device closest in proximity to said geo-location information indicated in said extension header of said packet.

22. The apparatus of claim **17**, wherein said monitoring comprises:

tracking said packet and providing feedback to a network administrator regarding a path of said packet through a network.

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